

INSTALL/REMOVAL INSTRUCTIONS: WINDOW REGULATOR

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

Removal Instructions

STEP 1: Using a Phillips head screwdriver and a Stubby Phillips head screwdriver, remove the interior door trim panel retaining screws.



STEP 2: Using a trim panel removal tool or pick, remove the interior door handle cap assembly.



STEP 3: Using a trim panel removal tool, detach the interior door trim panel from the door. **NOTE:** THERE ARE INTERIOR DOOR TRIM PANEL RETAINERS EVERY TEN TO TWELVE INCHES. PLACE THE TRIM PANEL REMOVAL TOOL BETWEEN THE INTERIOR DOOR TRIM PANEL AND THE DOOR AND PULL THE REMOVAL TOOL TOWARD YOU TO RELEASE THE RETAINERS.

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STEP 4: Disconnect the power switch assemblies. **NOTE:** NOT ALL VEHICLES CAME EQUIPPED WITH POWER MIRRORS. THE PHOTOS IN THIS INSTRUCTION SHEET ARE FOR ILLUSTRATION PURPOSES ONLY.



STEP 5: Remove the interior door trim panel.

STEP 6: Using a razor blade or a razor knife, trim the water vapor barrier around the interior door trim panel support brace.

NOTE: BY DOING THIS STEP YOU WILL AVOID HAVING TO DRILL OUT THE SUPPORT BRACE TO REMOVE THE WATER VAPOR BARRIER.



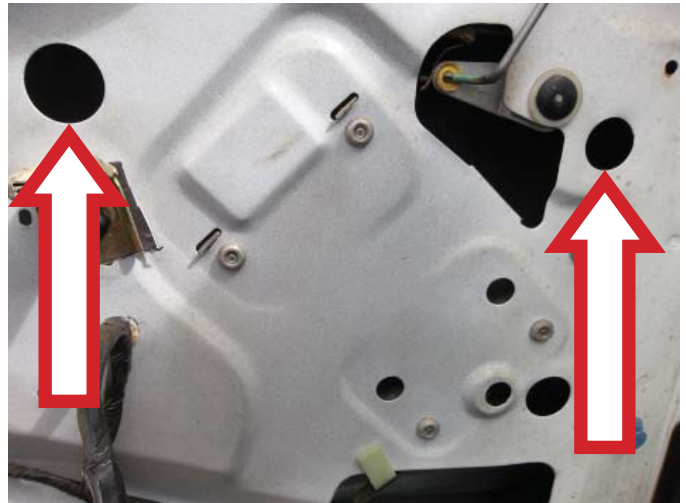
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STEP 7: Remove the water vapor barrier.



STEP 8: Temporarily connect the power switch assembly to lower the door glass, in order to access the rivets attaching the door glass to the window regulator.



STEP 9: Using your 3/8" power drill and drill bits, remove rivets attaching the door glass to the window regulator. **CAUTION:** USE EXTREME CARE WHILE DRILLING OUT THE DOOR GLASS ATTACHING RIVETS. FAILURE TO DO SO WILL RESULT IN GLASS BREAKAGE. WHILE DRILLING THE RIVETS OUT, START WITH AN 1/8" DRILL BIT, WORKING YOUR WAY UP TO A 1/4" DRILL BIT. YOU ARE ONLY DRILLING THE HEAD OF THE RIVET. DO NOT DRILL ALL OF THE WAY THROUGH THE RIVET.

STEP 10: Once the door glass has been separated from the window regulator, manually slide the door glass into the closed position and hold in place with either a saddle cup assembly, painters tape, or a wedge.

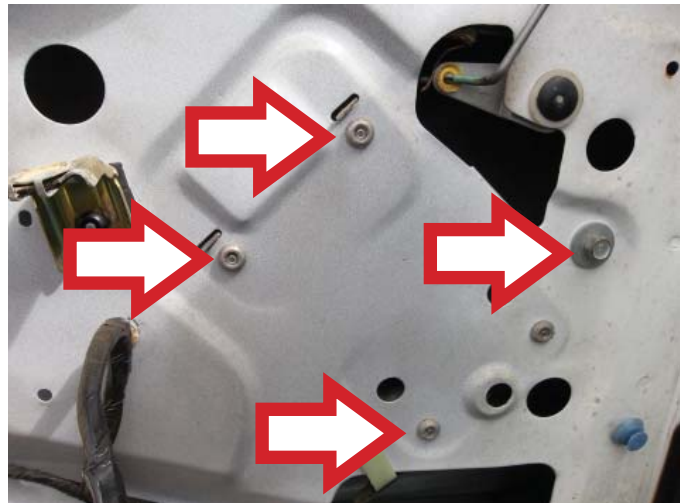
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STEP 11: Disconnect the window lift motor.



STEP 12: Using your 3/8" power drill and drill bits, remove the rivets attaching the window regulator to the door.



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STEP 13: Remove the window regulator through the main access hole.



STEP 15: Remove the three (3) window lift motor attaching bolts. **NOTE:** SOME VEHICLES CAME EQUIPPED WITH RIVETS ATTACHING TO THE WINDOW REGULATOR. IF THIS IS THE CASE, FOLLOW THE WINDOW REGULATOR RIVET REMOVAL SECTION OF THE INSTRUCTIONS. **CAUTION:** THE WINDOW REGULATOR ASSEMBLY IS UNDER EXTREME PRESSURE, DUE TO THE WINDOW REGULATOR PRE-TENSIONER SPRING. REMOVE THE PRE-TENSIONER SPRING.

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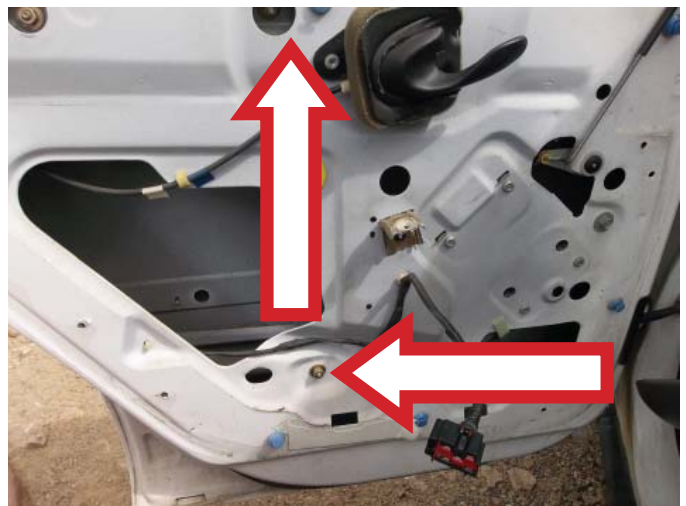
Installation Instructions

STEP 1: Attach the three (3) window lift motor attaching screws. **NOTE:** YOU MUST INSTALL THE PRE-TENSIONER SPRING IF YOU REMOVED IT DURING THE WINDOW LIFT MOTOR REMOVAL PROCEDURE.

STEP 1a: Install the window regulator through the main access hole.



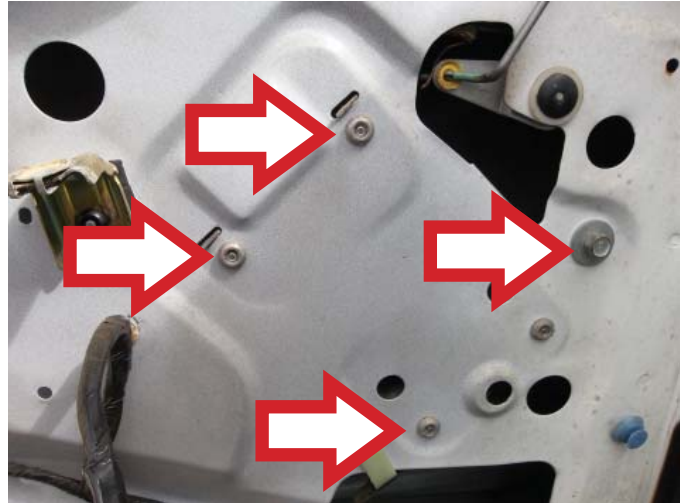
STEP 2: Using a 10 mm socket and ratchet, attach the window regulator rail to the door.



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STEP 3: Attach the window regulator assembly to the door using your replacement rivets. Alternately, you could use 1/4" x 20 x 1" bolts, 1/4" lock washers, 1/4" flat washers, and 1/4" nuts.



STEP 4: Connect the window lift motor.



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STEP 5: Temporarily connect the power switch assembly to raise or lower the window regulator, exposing the mounts attaching the door glass to the window regulator.

STEP 5a: Manually slide the door glass to align the window regulator mounts to the door glass.

STEP 5b: Attach the door glass to the window regulator using rivets. Alternately, you could use 1/4" x 20 x 1" bolts, 1/4" lock washers, 1/4" flat washers, and 1/4" nuts.

CAUTION: IF YOU ARE RIVETING THE DOOR GLASS TO THE WINDOW REGULATOR, USE EXTREME CAUTION. YOU MUST HAVE THE RIVET SITTING SQUARE AND FLUSH. IF YOU DO NOT, GLASS BREAKAGE WILL OCCUR. IF YOU ARE USING NUTS AND BOLTS, DO NOT OVERTIGHTEN OR GLASS BREAKAGE WILL OCCUR.

STEP 6: Operate the window regulator to verify that the window is operating properly and that there is no binding or interference.

STEP 7: Install the water vapor barrier.



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STEP 8: Connect the power switch assemblies.



STEP 9: Install the interior door trim panel. To install the interior door trim panel, slide the top of the interior door trim panel to the inside top of the door. Locate the interior door trim panel retaining holes and press the interior door trim panel into place. **NOTE:** IT MAY BE NECESSARY TO USE PAINTERS TAPE TO HOLD THE DOOR LOCK ROD IN POSITION.



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STEP 10: Using a Phillips head screwdriver, install the interior door trim panel retaining screws.



STEP 11: Install the interior door handle trim.



STEP 12: Verify that all of the interior door trim panel retaining screws are tight and that the window regulator is operating properly.